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## SONET configuration management with OpenPM

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*This paper appears in: Data Engineering, 1996. Proceedings of the Twel International Conference on*

Meeting Date: 02/26/1996 - 03/01/1996

Publication Date: 26 Feb.-1 March 1996

Location: New Orleans, LA USA

On page(s): 295 - 299

Reference Cited: 5

Inspec Accession Number: 5242628

### Abstract:

**SONET** (Synchronous Optical NETWORK) has been proposed as the backbone of information superhighway infrastructure. **SONET** network management, however, is a complex process that involves many heterogeneous systems and applications and many human interactions. In this paper, we describe a prototype system developed at Hewlett-Packard (HP) that provides a service for **configuring** large **SONET** networks. This prototype differs from the existing systems in that it employs the HP OpenPM (Process Management) workflow system to define, execute and monitor network management processes. Using OpenPM (a middleware service that enables the automation of activities supporting complex enterprise business processes in a distributed heterogeneous computing environment) as a reliable and efficient execution engine, this prototype supports efficient distributed network management and easy integration of legacy applications. The paper describes how an example **configuration** management process is modeled, executed and monitored using OpenPM.

### Index Terms:

**SONET** administrative data processing computer network management network operation systems open systems Hewlett-Packard OpenPM workflow system **SONET configuration management** distributed heterogeneous computing environment enterprise business process information superhighway infrastructure legacy applications middleware service network management processes open process management process definition process execution process monitoring synchronous optical network

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